

Title (en)
HYBRID EPOXY-ACRYLIC WITH ZIRCONIUM OXIDE NANOCOMPOSITE FOR CURABLE COATINGS

Title (de)
HYBRIDER EPOXIDACRYL-NANOVERBUNDSTOFF MIT ZIRKONOXID FÜR HÄRTBARE BESCHICHTUNGEN

Title (fr)
NANOCOMPOSITE HYBRIDE D'ÉPOXY-ACRYLIQUE COMPRENANT OXYDE DE ZIRCONIUM POUR DES REVÊTEMENTS DURCISSABLES

Publication
EP 3024889 A4 20170322 (EN)

Application
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Priority
CN 2013080129 W 20130725

Abstract (en)
[origin: WO2015010304A1] A composition comprising: a continuous liquid phase comprising an acrylic monomer and an epoxy monomer; and a dispersed nanoparticulate comprising ZrO₂ modified with an acrylic silane; and wherein the composition is transparent to visible light when coated on a lens. In addition, a method comprising the steps of: mixing an acrylic silane and a methanol-based ZrO₂ sol to create a methanol-based silane-modified ZrO₂ sol; then mixing at least an acrylic monomer, an epoxy monomer, and the methanol-based silane-modified ZrO₂ sol to obtain the composition. The composition can be adapted for coating and curing onto another substrate, such as an ophthalmic lens.

IPC 8 full level
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Citation (search report)

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Designated contracting state (EPC)
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